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**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the **PATENT APPLICATION** of:

Loher et al.

**Application No.:** 08/849,746

**Confirmation No:** 4225

**Filed:** September 5, 1997

For: PROCESS FOR MANUFACTURING  
COMPONENTS MADE OF FIBER-  
REINFORCED THERMO-PLASTIC  
MATERIALS

Group: 1732

Examiner: S. Staicovici

Our File: LUD-PT007

Date: September 12, 2005

**REPLY BRIEF**

Mail Stop Appeal Briefs-Patents  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

This Brief is submitted within two months of the mailing date of the Examiner's Answer filed on July 12, 2005.

This Reply addresses one issue in the Answer, it being understood that the Applicant's positions were previously set forth in its original Appeal Brief, and the Answer, for the most part, repeats arguments made during prosecution.

The Answer twice argues that the claims are "drawn to an extrusion type process and not an injection type process." See pages 25 and 26, Paragraphs (10)(B)(a) and (10)(C)(a). In support, the Answer cites the application paragraph [0059].<sup>1</sup>

Independent claims 1 and 2 recite two features that set them apart from an extrusion process:

pressing said heated blank into the negative mold using a pressing head that travels at a speed of 2mm/sec to 80 mm/sec, and

shaping the blank in the negative mold by virtue of the entire blank flowing from the heating stage into and filling up the negative mold.

These features, particularly placing the blank in a negative mold and filling up same, would not be shown or suggested by an extrusion process, and particular not in the composite sheets (U.S. Patent No. 4,356,228 to Kabayashi) and non-medical (U.S. Patent Nos. 4,662,887 and 5,156,558 to Turner and Marcune) prior art.

Claim 7, which depends from claim 1, recites a push-pull process, and despite the name of the process as "push-pull extrusion," the process involves an injection process that uses two units to push and pull thermoplastic through the mold. This

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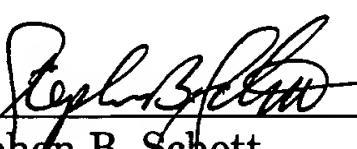
push-pull process is different from traditional extrusion in that it uses injectors within a negative mold to push and pull the thermoplastic through the mold. Thus, the art of traditional extrusion cannot be combined to teach the elements of the injection and push-pull process claims. Moreover, the "pulling" feature is entirely absent from the prior art cited against the claims, and thus the prior art does not show the claimed push-pull process.

For the above reasons, Applicants submit that the pending claims are patentable over the prior art. Reconsideration and allowance of the claims is respectfully requested.

Respectfully submitted,

Loher et al.

By

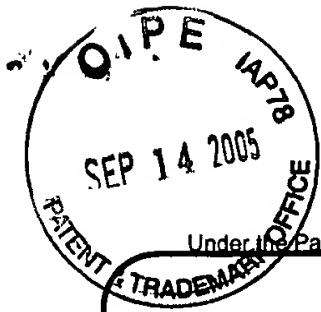
  
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<sup>1</sup> This is Paragraph [0059] in corresponding Publication No. 2003/0057590.



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## TRANSMITTAL FORM

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Total Number of Pages in This Submission

Application Number

08/849,746

Filing Date

September 5, 1997

First Named Inventor

Loher et al.

Art Unit

1732

Examiner Name

S. Staicovici

Attorney Docket Number

LUD-PT007

### ENCLOSURES (Check all that apply)

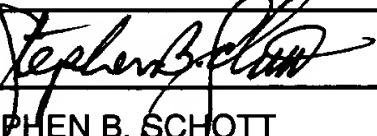
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### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	VOLPE AND KOENIG, P.C.		
Signature			
Printed name	STEPHEN B. SCHOTT		
Date	Septmeber 12, 2005	Reg. No.	51,294

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